

Appendix A
Public Notification that a potential event was occurring
(40 CFR §50.14(c)(1))

FIGURE A-1
NATIONAL WEATHER SERVICE PUBLIC ZONES

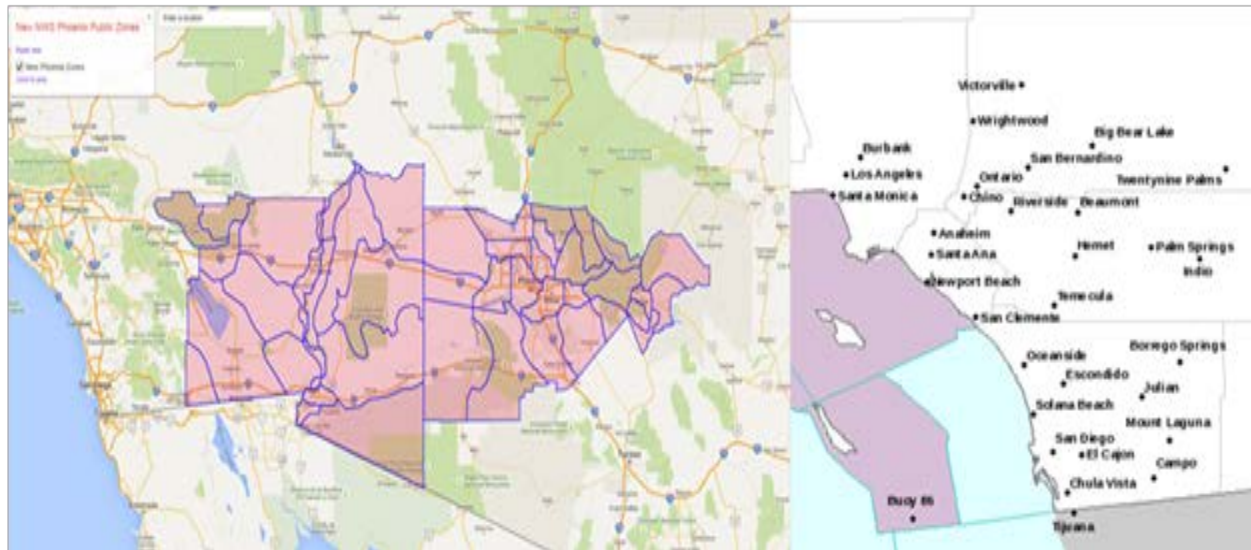


Fig A-1: Illustrates the public zones serviced by the National Weather Service Office in Phoenix and San Diego. Imperial County, including southeast sections of Riverside County are part of the reporting public zone areas from the Phoenix office

The Appendix A Supplemental contains all the pertinent National Weather Service notices issued by either the San Diego or Phoenix office in date and time order.

FIGURE A-2 IMPERIAL COUNTY PUBLIC ADVISORY OF POTENTIAL ELEVATED PM₁₀

The information herein is NOT intended for use as a weather forecast. The Air District DOES NOT forecast but solely compiles information from both the Phoenix and San Diego National Weather Offices to relay information concerning potential changes in ambient air concentrations that may impact the public

BE ADVISED

High wind levels have the potential to suspend particulate matter into the air. High levels of PM₁₀ may pose an impact to public health. It is recommended that active children and adults, and people with respiratory disease, such as asthma, limit their outdoor activities.

**Potential increases in PM₁₀ concentrations
may increase to moderate or unhealthy level.**

National Weather Service Area Discussions
March 24 to March 28, 2016

NWS Phoenix and San Diego Office

Dry Northwest flow aloft along with a warming trend can be expected today through Friday. A dry weather system will move through the region Saturday bringing just a slight cool down along with an increase in winds. Looking into the first half of next week it is looking increasingly likely that a more substantial cool down is approaching though significant rain are not expected.

March 24, 2016
 Sunny, with a high near 86.
 Northwest wind around 5 mph.
Tonight
 Mostly clear, with a low around 51.
 West wind around 5 mph.
Friday
 Sunny, with a high near 87.
 West northwest wind around 5 mph becoming calm.
Friday Night
 Mostly clear, with a low around 55.
 South southwest wind around 5 mph becoming west northwest after midnight.
Saturday
 Sunny, with a high near 84.
 Breezy, with a north wind 5 to 15 mph, with gusts as high as 20 mph.
Saturday Night
 Clear, with a low around 51.
 North wind 5 to 10 mph becoming light northwest.
Sunday
 Sunny, with a high near 88.
 North wind around 5 mph becoming south southeast in the afternoon.
Sunday Night
 Mostly clear, with a low around 55.
 South wind around 5 mph becoming west southwest after midnight.
Monday
 Mostly sunny, with a high near 84.
 Windy, with a west southwest wind 10 to 15 mph increasing to 20 to 25 mph in the afternoon.
Monday Night
 Partly cloudy, with a low around 55.
Tuesday
 Mostly sunny, with a high near 74.
 Breezy, with a west southwest wind 15 to 20 mph, with gusts as high as 30 mph.
Tuesday Night
 Partly cloudy, with a low around 49.
Wednesday
 Mostly sunny, with a high near 74. West wind around 10 mph

Sunny skies and warm conditions will prevail today with high temperatures 2-8 degrees warmer than March 23, 2016. The warm and quiet weather will continue through the weekend with the only notable weather event being a brief period of locally breezy northeast winds Saturday. Scattered light showers and cooler weather will arrive early next week.

Fig A-2: The ICAPCD posted an advisory on its website advising the public of elevated levels of PM₁₀ resulting from high winds March 24, 2016 through March 28, 2016. Source: ICAPCD archives

FIGURE A-3 WIND ADVISORY IN EFFECT FOR IMPERIAL COUNTY

National Weather Service Raw Text Product

Displaying AFOS PIL: NPWPSR Received: 2016-03-26 20:58 UTC

◀ Previous in Time
View All KPSR Products for 26 Mar 2016

Next in Time ▶
Latest Product

View As Image

```

r
800
MMUS75 KPSR 262058
NPWPSR

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE PHOENIX AZ
158 PM MST SAT MAR 26 2016

...WINDY CONDITIONS MONDAY AFTERNOON AND EVENING ACROSS SOUTHEAST
CALIFORNIA AND WESTERN ARIZONA...

AZZ020-021-CAZ030>033-271145-
/O.MEM.KPSR.MI.Y.0005.160328T2000Z-160329T0500Z/
LOWER COLORADO RIVER VALLEY AZ-WEST CENTRAL DESERTS-
JOSHUA TREE NATIONAL PARK-LOWER COLORADO RIVER VALLEY CA-
RIVERSIDE COUNTY/EASTERN DESERTS-IMPERIAL COUNTY-
INCLUDING THE CITIES OF...EHRENBERG...PARKER...BOUSE...
QUARTZSITE...SALOME...COTTONWOOD VISITOR CENTER...KEYS VIEW...
LOST HORSE...BLYTHE...CHIRIACO SUMMIT...DESERT CENTER...
EAGLE MOUNTAIN...BRANLEY...CALEXICO...EL CENTRO...GLAMIS...
IMPERIAL...THE SALTON SEA
158 PM MST SAT MAR 26 2016 /158 PM PDT SAT MAR 26 2016/

...WIND ADVISORY IN EFFECT FROM 1 PM MST /1 PM PDT/ TO 10 PM MST
/10 PM PDT/ MONDAY...

THE NATIONAL WEATHER SERVICE IN PHOENIX HAS ISSUED A WIND
ADVISORY...WHICH IS IN EFFECT FROM 1 PM MST /1 PM PDT/ TO 10 PM
MST /10 PM PDT/ MONDAY.

* AFFECTED AREA...SOUTHEAST CALIFORNIA INCLUDING INTERSTATE 8 AND 10
THROUGH THE CITIES OF EL CENTRO AND BLYTHE, WEST CENTRAL ARIZONA
INCLUDING HIGHWAYS 95 AND 72 THROUGH THE CITIES OF QUARTZSITE AND
PARKER.

* TIMING...STRONG WINDS BEGINNING MONDAY AFTERNOON AND CONTINUING INTO
THE EVENING HOURS.

* WINDS...SOUTHWEST WINDS AROUND 30 MPH WITH FREQUENT GUSTS TO 45
MPH.

* IMPACTS...HAZARDOUS DRIVING CONDITIONS WITH STRONG CROSS WINDS
AFFECTING HIGH PROFILE VEHICLES. AREAS OF BLOWING DUST AND SAND MAY
LEAD TO SIGNIFICANTLY LOWERED VISIBILITIES FURTHER EXACERBATING
DANGEROUS DRIVING CONDITIONS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN
30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND
58 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY
FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT
AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER
A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA
CAUTION.

&&

$$

```

Fig A-3: On Saturday, March 26, 2016 a Wind Advisory was issued for a wide swath of southeastern California including Imperial County. The advisory was in effect through event day on Monday, March 28, 2016. Winds up to 30 mph with gusts reaching 45 mph were forecasted. Blowing dust was also expected. Source: Iowa Environmental Mesonet; <https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201603262058>

FIGURE A-4 HIGH WIND WATCH FOR THE MOUNTAINS AND DESERTS

National Weather Service Forecast Office
San Diego, CA

Home News Organization FAQ Share Search

Get Local Forecast for: Enter location Search Help

Facebook Twitter YouTube RSS Feeds XML

Current Hazards
Outlooks
Submit Report

Current Conditions
Observations
Radar
Satellite
Precipitation
Mapped Weather
Other Hazards

Forecasts
Forecast Discussion
Local Area
Activity Planner
Aviation Weather
Fire Weather
Marine Weather
Severe Weather
Hurricane Center
User Defined Area
Travel
Fastlinks

Hydrology
Rivers and Lakes
Forecasts / Obs

Climate
Local
National
Drought
More...
Climate portal

Weather Safety
Preparedness
Weather Radio
SkyWarn™
StormReady
TsunamiReady

Additional Info
Items of Interest
Other Useful Links
Education Resources
COOP Observer
Our Office
NWS News

Contact Us
Contact Info
Feedback
FAQ

Non-precipitation Warnings, Watches, Advisories

• Go Back • Print Friendly • Version: 8 Newer Older • Font: A A A A •

• Turn Dictionary On •
This is NOT the current version and may no longer be valid.

WWUS76 KSGX 261830
NPWSGX

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE SAN DIEGO CA
1130 AM PDT SAT MAR 26 2016

...HIGH WIND WATCH FOR THE MOUNTAINS AND DESERTS MONDAY AND MONDAY NIGHT...

.A DEVELOPING STORM SYSTEM OVER THE WEST WILL GENERATE STRONG WESTERLY WINDS OVER THE MOUNTAINS AND DESERTS MONDAY AFTERNOON THROUGH MONDAY NIGHT. THE WINDS WILL SUBSIDE TUESDAY MORNING.

CAZ055-056-058-060>062-065-270230-
/O.NEW.KSGX.HW.A.0004.160328T1900Z-160329T1000Z/
SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-
SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-
COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-
SAN GORGONIO PASS NEAR BANNING-
1130 AM PDT SAT MAR 26 2016

...HIGH WIND WATCH IN EFFECT FROM MONDAY AFTERNOON THROUGH LATE MONDAY NIGHT...

THE NATIONAL WEATHER SERVICE IN SAN DIEGO HAS ISSUED A HIGH WIND WATCH...WHICH IS IN EFFECT FROM MONDAY AFTERNOON THROUGH LATE MONDAY NIGHT.

* WINDS...WEST 20 TO 35 MPH WITH GUSTS 55 TO 60 MPH...EXCEPT 40 TO 50 MPH WITH GUSTS 70 TO 80 MPH ON THE DESERTS SLOPES AND THROUGH AND BELOW THE SAN GORGONIO PASS.

* TIMING...WINDS INCREASING THROUGH THE DAY ON MONDAY...PEAKING MONDAY EVENING.

* LOCATION...STRONGEST WINDS WILL BE ALONG THE DESERT SLOPES AND NEAR THE DESERT FOOTHILLS.

* VISIBILITY...REDUCED ACROSS THE DESERTS...LOCALLY TO 1 MILE OR LESS AT TIMES IN BLOWING DUST AND SAND.

* IMPACTS...DIFFICULT DRIVING CONDITIONS...ESPECIALLY FOR DRIVERS IN HIGH PROFILE VEHICLES DUE TO STRONG CROSS WINDS AND LIMITED VISIBILITY AT TIMES IN BLOWING DUST AND SAND. STRUCTURAL DAMAGE IS POSSIBLE IF THESE WINDS SURFACE IN AND NEAR DESERT COMMUNITIES.

* OUTLOOK...WINDS SUBSIDING TUESDAY MORNING.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A HIGH WIND WATCH MEANS THERE IS THE POTENTIAL FOR A HAZARDOUS HIGH WIND EVENT. SUSTAINED WINDS OF AT LEAST 40 MPH...OR GUSTS OF 58 MPH OR STRONGER MAY OCCUR. CONTINUE TO MONITOR THE LATEST FORECASTS.

&&
\$\$
JAD

Fig A-4: A High Wind Watch was issued on Saturday, March 26, 2016 for the mountains and deserts effective through Monday night of March 28, 2016. Winds reaching 35 mph with gusts up to 70 or 80 mph on the desert slopes along with blowing dust and sand was expected. This area was immediately upstream of Imperial County during the wind event. Source: NWS San Diego office

FIGURE A-4 HIGH WIND WATCH BECOMES HIGH WIND WARNING

```

f
189
MMUS76 KSGX 280451
NPMSGX

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE SAN DIEGO CA
951 PM PDT SUN MAR 27 2016

...STRONG TO SEVERE WEST WINDS DEVELOPING OVER THE MOUNTAINS AND
DESERTS MONDAY AFTERNOON THROUGH MONDAY NIGHT...

.A LOW PRESSURE SYSTEM MOVING SOUTHWARD THROUGH THE WESTERN
STATES WILL BRING INCREASING ONSHORE FLOW ACROSS SOUTHERN
CALIFORNIA. STRONG AND GUSTY WESTERLY WINDS ARE LIKELY OVER THE
MOUNTAINS AND DESERTS BY MONDAY AFTERNOON CONTINUING INTO MONDAY
NIGHT... DIMINISHING TUESDAY.

CAZ061-062-281300-
/O.UPG.KSGX,MT.V.0018.160328T1900Z-160329T0500Z/
/O.EXA.KSGX,HM.W.0005.160328T1900Z-160329T1000Z/
COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-
951 PM PDT SUN MAR 27 2016

...HIGH WIND WARNING IN EFFECT FROM NOON MONDAY TO 3 AM PDT
TUESDAY...

THE NATIONAL WEATHER SERVICE IN SAN DIEGO HAS ISSUED A HIGH WIND
WARNING...WHICH IS IN EFFECT FROM NOON MONDAY TO 3 AM PDT
TUESDAY. THE WIND ADVISORY IS NO LONGER IN EFFECT.

* WINDS...WEST WINDS 20 TO 30 MPH WITH GUSTS TO 50 MPH. STRONGEST
GUSTS UP TO 70 MPH MONDAY EVENING NEAR THE DESERT FOOTHILLS AND
SLOPES...AND NORTH AND EAST OF INTERSTATE 10 IN THE COACHELLA
VALLEY.

* TIMING...WINDS INCREASING THROUGH THE DAY MONDAY...PEAKING
MONDAY EVENING...THEN DIMINISHING TUESDAY MORNING.

* VISIBILITY...COULD BE REDUCED TO NEAR ZERO DURING TIMES OF BLOWING
SAND AND DUST.

* IMPACTS...THE WINDS WILL MAKE DRIVING DIFFICULT...ESPECIALLY FOR
MOTORISTS WITH HIGH PROFILE VEHICLES. WATCH FOR BROKEN TREES AND
OTHER DEBRIS. WINDS OF THIS MAGNITUDE COULD CAUSE ISOLATED
PROPERTY DAMAGE AND POWER OUTAGES.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A HIGH WIND WARNING MEANS A HAZARDOUS HIGH WIND EVENT IS EXPECTED
OR OCCURRING. SUSTAINED WIND SPEEDS OF AT LEAST 40 MPH OR GUSTS
OF 58 MPH OR MORE CAN LEAD TO PROPERTY DAMAGE.

&&

$$

CAZ055-056-058-060-065-281300-
/O.CON.KSGX,HM.W.0005.160328T1900Z-160329T1000Z/
SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-
SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-
SAN GORGONIO PASS NEAR BANNING-
951 PM PDT SUN MAR 27 2016

...HIGH WIND WARNING REMAINS IN EFFECT FROM NOON MONDAY TO 3 AM
PDT TUESDAY...

* WINDS...WEST WINDS 25 TO 40 MPH WITH GUSTS TO 60 MPH. STRONGEST
GUSTS 75 TO 90 MPH MONDAY EVENING THROUGH LATE MONDAY NIGHT
ALONG THE DESERT SLOPES.

* TIMING...WINDS INCREASING ON MONDAY...WITH STRONGEST WINDS
MONDAY EVENING...SUBSIDING TUESDAY MORNING.

* LOCATION...STRONGEST WINDS WILL BE NEAR MOUNTAIN RIDGE TOPS
AND ALONG DESERT MOUNTAIN SLOPES...AND ACROSS THE NORTHERN
COACHELLA VALLEY BELOW THE SAN GORGONIO PASS.

* VISIBILITY...COULD BE REDUCED TO NEAR ZERO DURING TIMES OF BLOWING
SAND AND DUST IN THE DESERTS.

```

Fig A-4: The High Wind Watch became a High Wind Warning on Sunday, March 27, 2016 for the mountains and deserts areas upstream from Imperial County. Strongest gusts were expected on desert slopes immediately west of Imperial County. Visibility was expected to drop to near zero due to blowing dust and sand. Source:

Source: Iowa Environmental Mesonet;
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWSGX&e=201603280451>

FIGURE A-5 WIND ADVISORY CONTINUED FOR IMPERIAL COUNTY

National Weather Service Raw Text Product

Displaying AFOS PIL: NPWPSR Received: 2016-03-28 10:06 UTC

← Previous in Time

View All KPSR Products for 28 Mar 2016

Next in Time →

Latest Product

View As Image

```

r
597
MMUS75 KPSR 281006
NPWPSR

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE PHOENIX AZ
306 AM MST MON MAR 28 2016

...WINDY CONDITIONS MONDAY AFTERNOON AND EVENING ACROSS SOUTHEAST
CALIFORNIA AND WESTERN ARIZONA...

AZZ020-021-CAZ030>033-282200-
/O.CON.KPSR.WI.Y.0005.160328T2000Z-160329T0500Z/
LOWER COLORADO RIVER VALLEY AZ-WEST CENTRAL DESERTS-
JOSHUA TREE NATIONAL PARK-LOWER COLORADO RIVER VALLEY CA-
RIVERSIDE COUNTY/EASTERN DESERTS-IMPERIAL COUNTY-
INCLUDING THE CITIES OF...EHRENBERG...PARKER...BOUSE...
QUARTZSITE...SALOME...COTTONWOOD VISITOR CENTER...KEYS VIEW...
LOST HORSE...BLYTHE...CHIRIACO SUMMIT...DESERT CENTER...
EAGLE MOUNTAIN...BRANLEY...CALEXICO...EL CENTRO...GLAMIS...
IMPERIAL...THE SALTON SEA
306 AM MST MON MAR 28 2016 /306 AM PDT MON MAR 28 2016/

...WIND ADVISORY REMAINS IN EFFECT FROM 1 PM MST /1 PM PDT/ THIS
AFTERNOON TO 10 PM MST /10 PM PDT/ THIS EVENING...

* AFFECTED AREA...SOUTHEAST CALIFORNIA INCLUDING JOSHUA TREE NATIONAL
PARK AS WELL AS INTERSTATE 8 AND 10 THROUGH THE CITIES OF EL
CENTRO AND BLYTHE, WEST CENTRAL ARIZONA INCLUDING HIGHWAYS 95 AND
72 THROUGH THE CITIES OF QUARTZSITE AND PARKER.

* TIMING...STRONG WINDS BEGINNING THIS AFTERNOON AND CONTINUING INTO
THE EVENING HOURS.

* WINDS...SOUTHWEST WINDS AROUND 30 MPH WITH FREQUENT GUSTS TO
45 MPH.

* IMPACTS...HAZARDOUS DRIVING CONDITIONS WITH STRONG CROSS WINDS
AFFECTING HIGH PROFILE VEHICLES. AREAS OF BLOWING DUST AND
SAND MAY LEAD TO SIGNIFICANTLY LOWERED VISIBILITIES FURTHER
EXACERBATING DANGEROUS DRIVING CONDITIONS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN
30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND
58 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY
FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT
AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER
A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA
CAUTION.

&&
$$

```

Fig A-5: On Monday, March 28, 2016 the Wind Advisory remained in place for southeastern California and western Arizona. Winds up to 30 mph with gusts reaching 45 mph were forecasted. Blowing dust was also expected. Source: Iowa Environmental Mesonet;

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201603281006>

FIGURE A-6

POWERFUL STORM FORECASTED FOR MONDAY, MARCH 28, 2016

FXUS65 KPSR 281213 AAA
AFDPSR

AREA FORECAST DISCUSSION...UPDATED
NATIONAL WEATHER SERVICE PHOENIX AZ
510 AM MST MON MAR 28 2016

.UPDATE...UPDATED AVIATION AND FIRE WEATHER DISCUSSIONS.

&&

.SYNOPSIS...

A STRONG WEATHER SYSTEM WILL BRING WINDY CONDITIONS THIS AFTERNOON AND EVENING WITH BLOWING DUST AT TIMES. THE SYSTEM WILL ALSO USHER IN MUCH COOLER TEMPERATURES BEGINNING TUESDAY. IN FACT TEMPERATURES WILL BE WELL BELOW NORMAL TUESDAY AND WEDNESDAY BEFORE A WARMING TREND BEGINS THURSDAY. PRECIPITATION CHANCES WILL BE QUITE MODEST AND LIMITED TO THE HIGHER TERRAIN. OVER THE WEEKEND...TEMPERATURES CLIMB ABOVE NORMAL.

&&

.DISCUSSION...

TODAY THROUGH THURSDAY...

THE WEATHER SYSTEM OF INTEREST FOR OUR FORECAST AREA IS COVERING MUCH OF THE WESTERN CONUS EARLY THIS MORNING. THE ASSOCIATED COLD FRONT HAS REACHED SOUTHERN NEVADA AND PORTIONS OF SOUTHERN CALIFORNIA AS OF THIS WRITING. THE SYSTEM WILL CONTINUE TO ADVANCE SOUTHEASTWARD AS AN UPSTREAM RIDGE AMPLIFIES IN RESPONSE TO DEEPENING TROUGH OVER THE NORTH-CENTRAL PACIFIC. THE COLD FRONT WILL MOVE ACROSS SOUTHEAST CALIFORNIA THIS AFTERNOON...ACROSS WESTERN AND CENTRAL ARIZONA TONIGHT...AND REACH THE NEW MEXICO BORDER BY MIDDAY TUESDAY. THE MAIN CONCERN FOR TODAY IS THE WIND THIS AFTERNOON AND EVENING. AS IS OFTEN THE CASE...STRONGEST WINDS OVER OUR FORECAST AREA WILL BE SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA AND AN ADVISORY REMAINS IN EFFECT THERE...LESS WIND OVER SOUTH-CENTRAL ARIZONA. THE STRONG WINDS WILL OF COURSE KICK UP THE DUST. CONDITIONS WILL STILL BE BREEZY TUESDAY. THERE ARE STRONG HEIGHT FALLS AND DIV Q FORCING WITH THIS SYSTEM. HOWEVER...WITH MUCH OF THE SYSTEM TAKING AN OVERLAND TRAJECTORY ALONG WITH A POSITIVE TILT TO THE TROUGH PLUS RAIN SHADOWING EFFECTS...THERE WILL NOT BE MUCH MOISTURE ADVECTION FOR OUR AREA. THUS PRECIPITATION POTENTIAL CONTINUES TO BE LIMITED PRIMARILY TO THE NORTHERN HALF OF ARIZONA TUESDAY INTO THURSDAY...MAINLY TUESDAY.

MUCH COOLER TEMPERATURES ARE IN STORE THOUGH. IN FACT...DESERT HIGHS WILL BE IN THE UPPER 60S TO LOW 70S TUESDAY AND WEDNESDAY WITH THE UPPER TROUGH LINGERING OVER THE GREAT BASIN AND DESERT SOUTHWEST. THE TROUGH STARTS DEPARTING THURSDAY AND TEMPERATURES START TO WARM UP BUT WITH READINGS STILL BELOW NORMAL.

FRIDAY THROUGH SUNDAY...

THE RIDGE BUILDS OVER THE INTERIOR WEST FRIDAY AND SATURDAY WITH TEMPERATURES CLIMBING ABOVE NORMAL AS A RESULT. MODELS DIVERGE MORE NOTICEABLY ON SUNDAY WITH GFS AND CMC FLATTENING THE RIDGE WHILE THE ECMWF DEPICTS A HIGHER AMPLITUDE. DIFFERENCES ARE NOT THAT GREAT IN REALITY. DIFFERENCES ARE MAINLY ASSOCIATED WITH HOW THEY HANDLE AN UPSTREAM TROUGH. ANTICIPATE ADDITIONAL WARMING SUNDAY AS THE LOWER LEVELS REALIZE THE FULL SUBSIDENCE WARMING FROM ALOFT.

&&

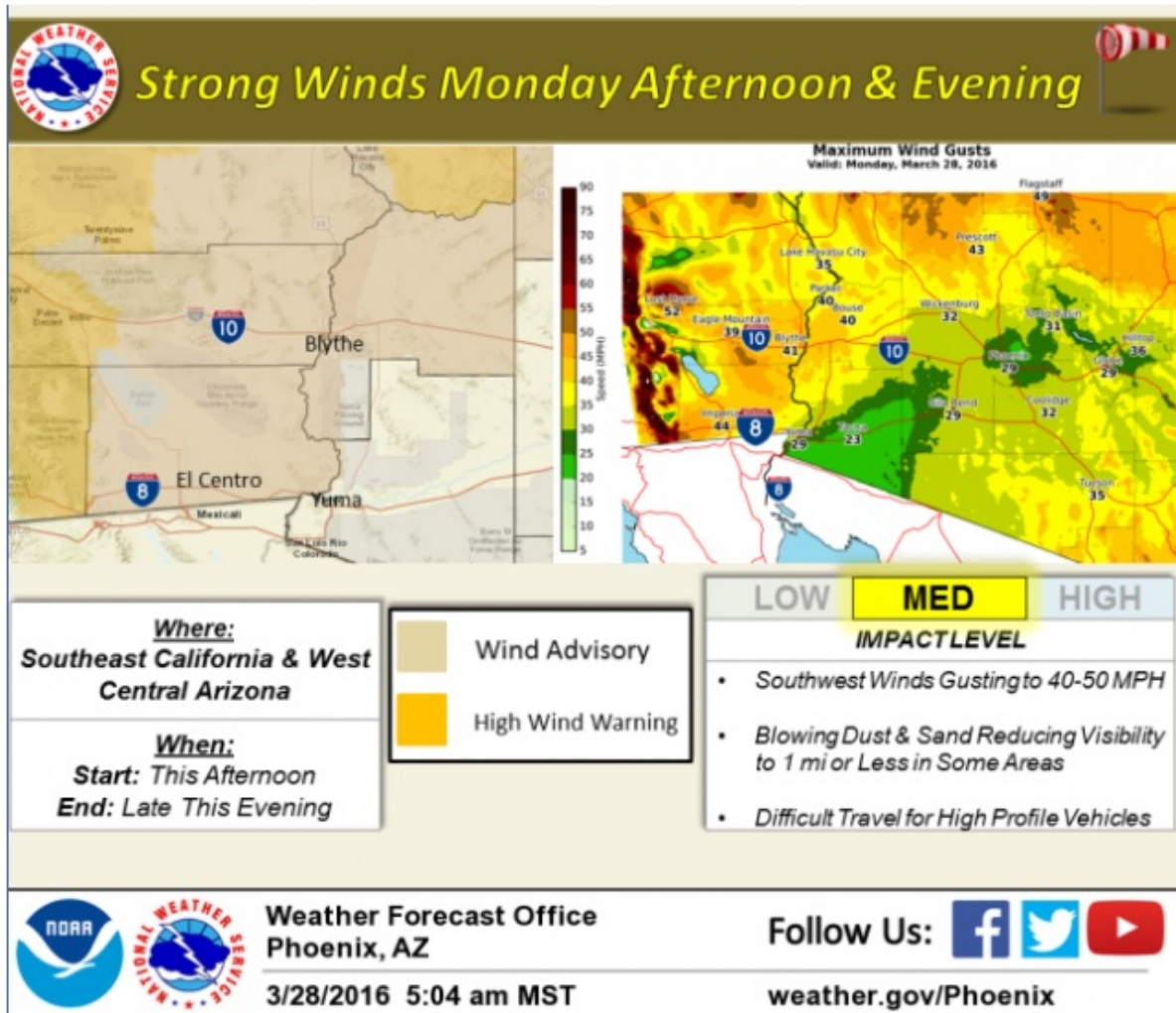
.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL...

STRONGER WIND GUSTS DEVELOPING THIS AFTERNOON WILL BE THE PRIMARY AVIATION IMPACT WITH ONLY FEW-SCT MIDLEVEL DECKS BELOW AN INCREASING THICKER CIRRUS LAYER. AN EASTERLY SFC WIND THIS MORNING WILL SHIFT

Fig A-6: A powerful weather system moving through the region was expected to bring high winds and blowing dust on Monday, March 28, 2016. The strongest winds were expected to be over southeastern California and into southwestern Arizona. Source: NWS Phoenix office Area Forecast Discussion

FIGURE A-7
WEATHER STORY FORECASTED POWERFUL WINDS AND BLOWING DUST



Windy conditions will develop this afternoon and continue through the evening hours. Southwest winds will rapidly become gusty with speeds frequently ranging between 40 and 50 mph over southeast California and portions of Arizona (even higher in mountainous areas). This will make for difficult travel conditions on area roads due to shifting crosswinds, especially along north-south oriented roads. In addition, these strong winds may also lead to periods of blowing dust and sand which could significantly reduce visibilities. If you encounter dense blowing dust where you cannot see vehicles in front of you, pull off the roadway as far as you can. Extreme caution is urged if traveling through this area Monday afternoon and evening.

Fig A-7: Winds up to 40 to 50 mph were expected for southeastern California on March 28, 2016. Periods of blowing sand and dust were also expected. Source: NWS Phoenix office Weather Story

FIGURE A-8 ZONE FORECAST FOR IMPERIAL COUNTY

.THURSDAY NIGHT...PARTLY CLOUDY. LOMS IN THE MID 40S TO MID 50S.
 .FRIDAY...MOSTLY SUNNY AND WARMER. HIGHS IN THE LOWER 70S TO LOWER 80S.
 .FRIDAY NIGHT...MOSTLY CLEAR. LOMS IN THE UPPER 40S TO UPPER 50S.
 .SATURDAY...MOSTLY SUNNY. HIGHS IN THE MID 70S TO MID 80S.
 .SATURDAY NIGHT...MOSTLY CLEAR. LOMS 50 TO 60.
 .SUNDAY...SUNNY. HIGHS IN THE UPPER 70S TO UPPER 80S.
 .SUNDAY NIGHT...MOSTLY CLEAR. LOMS 50 TO 60.
 .MONDAY...MOSTLY SUNNY. HIGHS IN THE MID 70S TO MID 80S.

\$\$

CAZ032-291100-
 RIVERSIDE COUNTY/EASTERN DESERTS-
 INCLUDING THE CITIES OF...CHERTACO SUMMIT...DESERT CENTER...
 EAGLE MOUNTAIN
 410 PM PDT MON MAR 28 2016

...WIND ADVISORY IN EFFECT UNTIL 10 PM PDT THIS EVENING...

.TONIGHT...PARTLY CLOUDY IN THE EVENING...THEN BECOMING MOSTLY CLEAR.
 WINDY. AREAS OF BLOWING DUST IN THE EVENING. COOLER. LOMS 45 TO 55.
 WEST WIND 25 TO 35 MPH IN THE EVENING DECREASING TO 10 TO 20 MPH
 AFTER MIDNIGHT. GUSTS UP TO 45 MPH.
 .TUESDAY...MOSTLY SUNNY...BREEZY AND COOLER. HIGHS 68 TO 73. WEST
 WIND 10 TO 20 MPH. GUSTS UP TO 30 MPH.
 .TUESDAY NIGHT...PARTLY CLOUDY AND BREEZY. LOMS 42 TO 52. WEST WIND
 10 TO 20 MPH. GUSTS UP TO 30 MPH IN THE EVENING.
 .WEDNESDAY...PARTLY SUNNY. HIGHS 69 TO 74. WEST WIND 5 TO 10 MPH.
 .WEDNESDAY NIGHT...PARTLY CLOUDY. LOMS 42 TO 52. NORTHWEST WIND 5 TO
 15 MPH.
 .THURSDAY...MOSTLY SUNNY AND WARMER. HIGHS IN THE MID TO UPPER 70S.
 .THURSDAY NIGHT...PARTLY CLOUDY. LOMS IN THE MID 40S TO MID 50S.
 .FRIDAY...MOSTLY SUNNY AND WARMER. HIGHS IN THE LOWER TO MID 80S.
 .FRIDAY NIGHT...CLEAR. LOMS IN THE UPPER 40S TO UPPER 50S.
 .SATURDAY...SUNNY. HIGHS IN THE MID TO UPPER 80S.
 .SATURDAY NIGHT...MOSTLY CLEAR. LOMS IN THE UPPER 40S TO UPPER 50S.
 .SUNDAY...SUNNY. HIGHS 85 TO 90.
 .SUNDAY NIGHT...MOSTLY CLEAR. LOMS 50 TO 60.
 .MONDAY...MOSTLY SUNNY. HIGHS IN THE MID 80S TO LOWER 90S.

\$\$

CAZ033-291100-
IMPERIAL COUNTY-
 INCLUDING THE CITIES OF...BRANLEY...CALEXICO...EL CENTRO...GLAMIS...
 IMPERIAL...THE SALTON SEA
 410 PM PDT MON MAR 28 2016

...BLOWING DUST ADVISORY IN EFFECT UNTIL 7 PM PDT THIS EVENING...
 ...WIND ADVISORY IN EFFECT UNTIL 10 PM PDT THIS EVENING...

.TONIGHT...PARTLY CLOUDY AND VERY WINDY. AREAS OF BLOWING DUST IN THE
 EVENING. COOLER. LOMS 48 TO 58. WEST WIND 25 TO 40 MPH IN THE EVENING
 DECREASING TO 20 TO 30 MPH AFTER MIDNIGHT. GUSTS UP TO 50 MPH IN THE
 EVENING.
 .TUESDAY...MOSTLY SUNNY...WINDY AND COOLER. HIGHS 66 TO 71. WEST WIND
 20 TO 30 MPH. GUSTS UP TO 40 MPH.
 .TUESDAY NIGHT...MOSTLY CLEAR AND WINDY. LOMS 45 TO 55. WEST WIND
 20 TO 30 MPH IN THE EVENING DECREASING TO 10 TO 20 MPH AFTER
 MIDNIGHT. GUSTS UP TO 40 MPH IN THE EVENING.
 .WEDNESDAY...MOSTLY SUNNY IN THE MORNING...THEN BECOMING PARTLY
 SUNNY. HIGHS 67 TO 72. WEST WIND 5 TO 15 MPH.
 .WEDNESDAY NIGHT...PARTLY CLOUDY IN THE EVENING...THEN BECOMING
 MOSTLY CLEAR. LOMS 45 TO 55. WEST WIND 5 TO 10 MPH.
 .THURSDAY...MOSTLY SUNNY AND WARMER. HIGHS 75 TO 80.
 .THURSDAY NIGHT...MOSTLY CLEAR. LOMS IN THE UPPER 40S TO UPPER 50S.
 .FRIDAY...MOSTLY SUNNY AND WARMER. HIGHS IN THE MID TO UPPER 80S.
 .FRIDAY NIGHT...CLEAR. LOMS IN THE LOWER 50S TO LOWER 60S.
 .SATURDAY...SUNNY. HIGHS 85 TO 90.
 .SATURDAY NIGHT...MOSTLY CLEAR. LOMS IN THE LOWER 50S TO LOWER 60S.
 .SUNDAY...MOSTLY SUNNY. HIGHS 85 TO 90.
 .SUNDAY NIGHT...MOSTLY CLEAR. LOMS IN THE LOWER 50S TO LOWER 60S.
 .MONDAY...MOSTLY SUNNY. HIGHS IN THE MID 80S TO LOWER 90S.

\$\$

VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

Fig A-8: A Zone Forecast for Imperial County issued at 4:10 MST on March 28, 2016 reiterated the Wind Advisory and Blowing Dust Advisory for the area. Source: Iowa Environmental Mesonet;
<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=ZFPPSR&e=201603282310>

FIGURE A-9 BLOWING DUST ADVISORY FOR IMPERIAL COUNTY

```

r
342
MMUS75 KPSR 282312
NPMPSR

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE PHOENIX AZ
412 PM MST MON MAR 28 2016

...WINDY CONDITIONS THIS AFTERNOON AND EVENING ACROSS SOUTHEAST
CALIFORNIA AND WESTERN ARIZONA...

...OCCASIONAL DENSE BLOWING DUST IN SOUTHWEST IMPERIAL COUNTY ALONG
INTERSTATE 8...

CAZ033-290500-
/O.NEW.KPSR.DU.Y.0004.160328T2312Z-160329T0200Z/
/O.CON.KPSR.WI.Y.0005.000000T0000Z-160329T0500Z/
IMPERIAL COUNTY
INCLUDING THE CITIES OF...BRAWLEY...CALEXICO...EL CENTRO...
GLAMIS...IMPERIAL...THE SALTON SEA
412 PM PDT MON MAR 28 2016

...BLOWING DUST ADVISORY IN EFFECT UNTIL 7 PM PDT THIS EVENING...
...WIND ADVISORY REMAINS IN EFFECT UNTIL 10 PM PDT THIS EVENING...

THE NATIONAL WEATHER SERVICE IN PHOENIX HAS ISSUED A BLOWING DUST
ADVISORY...WHICH IS IN EFFECT UNTIL 7 PM PDT THIS EVENING.

* AFFECTED AREA...SOUTHEAST CALIFORNIA ALONG INTERSTATE 8 THROUGH THE
CITIES OF EL CENTRO.

* TIMING...STRONG WINDS CONTINUING THROUGH THIS EVENING.

* WINDS...SOUTHWEST WINDS AROUND 30 MPH WITH FREQUENT GUSTS TO
45 MPH.

* VISIBILITY...FALLING BELOW 1 MILE AT TIMES WEST OF EL CENTRO ALONG
INTERSTATE 8.

* IMPACTS...HAZARDOUS DRIVING CONDITIONS WITH STRONG CROSS WINDS
AFFECTING HIGH PROFILE VEHICLES. AREAS OF BLOWING DUST AND
SAND MAY LEAD TO SIGNIFICANTLY LOWERED VISIBILITIES FURTHER
EXACERBATING DANGEROUS DRIVING CONDITIONS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN
30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND
58 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY
FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT
AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER
A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA
CAUTION.

BE READY FOR A SUDDEN DROP IN VISIBILITY. IF YOU ENCOUNTER
BLOWING DUST OR BLOWING SAND ON THE ROADWAY OR SEE IT
APPROACHING...PULL OFF THE ROAD AS FAR AS POSSIBLE AND PUT YOUR
VEHICLE IN PARK. TURN THE LIGHTS ALL THE WAY OFF AND KEEP YOUR
FOOT OFF THE BRAKE PEDAL.

REMEMBER...PULL ASIDE...STAY ALIVE.

&&

$$

AZZ020-021-CAZ030>032-290500-
/O.CON.KPSR.WI.Y.0005.000000T0000Z-160329T0500Z/
LOWER COLORADO RIVER VALLEY AZ-WEST CENTRAL DESERTS-
JOSHUA TREE NATIONAL PARK-LOWER COLORADO RIVER VALLEY CA-
RIVERSIDE COUNTY/EASTERN DESERTS-
INCLUDING THE CITIES OF...EHRENBERG...PARKER...BOUSE...
QUARTZSITE...SALOME...COTTONWOOD VISITOR CENTER...KEYS VIEW...
LOST HORSE...BLYTHE...CHIRIACO SUMMIT...DESERT CENTER...
EAGLE MOUNTAIN
412 PM MST MON MAR 28 2016 /412 PM PDT MON MAR 28 2016/

...WIND ADVISORY REMAINS IN EFFECT UNTIL 10 PM MST /10 PM PDT/
THIS EVENING...

```

Fig A-9: A Blowing Dust Advisory was issued for Imperial County during the afternoon of March 28, 2016. Source: Iowa Environmental Mesonet; <https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=NPWPSR&e=201603282312>

FIGURE A-10 BLOWING DUST OBSERVED OVER WIDE AREA OF CALIFORNIA

Monday, March 28, 2016

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 0300Z March 29, 2016

SMOKE:

Central US:

A large concentration of fires was analyzed across the region stretching from Oklahoma and Arkansas northward to Iowa with a particular emphasis on the area encompassing northeastern Oklahoma and southeastern and eastern Kansas. Numerous smoke plumes of mainly thin density were visible in satellite imagery with quite a few of these fires. The significant concentration of fires over northeastern Oklahoma and southeastern Kansas were responsible for plumes which congealed into a patch of thin to moderate density smoke which moved to the north covering much of eastern Kansas and into southeastern Nebraska.

DUST:

Southern California/Southern Nevada/Western Arizona:

Gusty winds and reports of blowing dust were noted from a few locations in the southern third of California, southern Nevada, and western Arizona though rather widespread cloudiness greatly interfered with dust detection in satellite imagery. A possible patch of thin density blowing dust was seen in between breaks in the clouds moving to the south across southwestern Nevada and over the border into southeastern California.

Northern Mexico/Southern New Mexico/Western Texas:

Cloudiness also interfered with dust detection in this region as well though a possible swath of thin density dust was visible moving to the northeast from northern Mexico into southern New Mexico and far western Texas just before sunset.

JS

Earlier This Morning...

SMOKE:

Nebraska/Iowa Border:

A small patch of smoke could be seen moving eastward across southeast Nebraska towards the Iowa border. This smoke appears to have come from fires in central and eastern Nebraska yesterday.

Gulf of Mexico/Bay of Campeche:

With much of the Gulf of Mexico covered by broken cloud cover, some smoke could be seen across the central and western Gulf of Mexico along with within the Bay of Campeche. This remnant thin smoke is mostly from fires in Mexico and other nearby countries of Central America.

DUST:

Central and Northern Plains/Midwest/Great Lakes:

An area of an elevated aerosol was observed over the Central and Northern Plains. It is difficult to determine its full extent due to the diffuse nature of the aerosol and clouds obscuring parts of the Midwest and exiting the Intermountain West though. The aerosol is thought to be elevated dust particles, possibly originating from Asia based on back trajectories of aerosol models. It stretches approximately from north Arkansas/north Oklahoma northward to the Dakotas/western and central Minnesota, and across Lake Superior over southern Ontario.

UNKNOWN AEROSOL:

Texas/Oklahoma:

An aerosol is observed over parts of Oklahoma southward and southeastward across Texas. This aerosol could be elevated dust or remnant smoke or

Fig A-10: A NOAA Smoke Text Product effective through 1900 March 28, 2016 observed blowing dust/sand not only in southeastern California, but a wide area due to the high winds.

Source:

<http://www.ssd.noaa.gov/PS/FIRE/DATA/SMOKE/2016/2016C290336.html>

FIGURE A-11 HIGH WINDS ADVISORY MAP

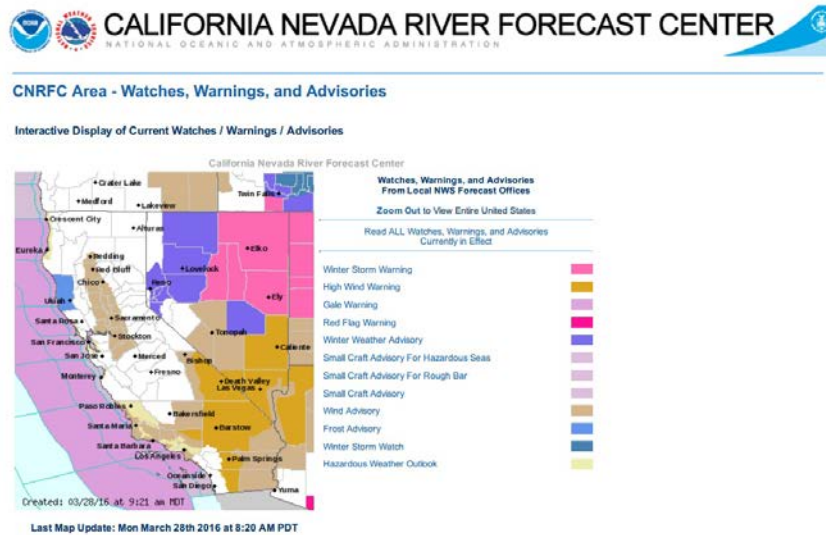


Fig A-11: A Wind Advisory was issued for a wide swath of Imperial County and southeastern California. A High Wind Warning was issued for portions of the San Diego County deserts and mountains just west of Imperial County. Source: CNRFC

FIGURE A-12 HIGH WINDS RECORDED OVER WIDE REGION

```

r
024
NOUS46 KSGX 282244
PISSGX
CAZ043-048-050-055>058-060>062-065-552-554-291044-

PUBLIC INFORMATION STATEMENT
NATIONAL WEATHER SERVICE SAN DIEGO CA
344 PM PDT MON MAR 28 2016

...PEAK WIND GUSTS SO FAR TODAY...

LOCATION                                SPEED    TIME/DATE

...COACHELLA VALLEY...
THERMAL AIRPORT                        43 MPH   0316 PM 03/28
PALM DESERT (5 S)                     42 MPH   1230 PM 03/28
COACHELLA                             41 MPH   0201 PM 03/28
SKY VALLEY                             41 MPH   0328 PM 03/28

...SAN BERNARDINO COUNTY MOUNTAINS...
BURNS CANYON                          49 MPH   0151 PM 03/28
HEAPS PEAK                            49 MPH   0115 PM 03/28
WRIGHTWOOD                            46 MPH   0223 PM 03/28
BIG BEAR CITY (2 SE)                  43 MPH   0240 PM 03/28

...SAN DIEGO COUNTY DESERTS...
OCOTILLO WELLS                        53 MPH   0323 PM 03/28
IN KO PAH                             47 MPH   0300 PM 03/28
BORREGO SPRINGS                       44 MPH   0135 PM 03/28
BORREGO SPRINGS (2 E)                 41 MPH   0130 PM 03/28

...SAN DIEGO COUNTY MOUNTAINS...
VOLCAN MOUNTAIN                       73 MPH   0300 PM 03/28
HARRISON PARK                         63 MPH   0310 PM 03/28
JULIAN (2 SE)                         53 MPH   0244 PM 03/28
LUCKY FIVE RANCH                      52 MPH   0220 PM 03/28
BOULEVARD WEST                        51 MPH   0310 PM 03/28
CRESTMWOOD                           50 MPH   0310 PM 03/28
RANCHITA (RAMS)                       50 MPH   0207 PM 03/28
EAST WARNERS                          49 MPH   0120 PM 03/28
RANCHITA                              48 MPH   0210 PM 03/28
LAKE CUYAMACA                         45 MPH   0120 PM 03/28
PALOMAR MTH (HIGH POINT LOOK)         44 MPH   0234 PM 03/28
JULIAN                                43 MPH   1200 PM 03/28
LA POSTA                              41 MPH   1120 AM 03/28

...SAN GORGONIO PASS NEAR BANNING...
WHITEMATER RAMS                       60 MPH   0250 PM 03/28
WHITE WATER (2 S)                     54 MPH   0210 PM 03/28
SKY VALLEY (1 W)                      48 MPH   0323 PM 03/28

...VICTOR VALLEY - APPLE VALLEY - LUCERNE VALLEY - JOHNSON VALLEY...
LUCERNE VALLEY                        56 MPH   0320 PM 03/28
APPLE VALLEY 2                         47 MPH   0250 PM 03/28
VICTORVILLE AIRPORT                 46 MPH   0250 PM 03/28
PINON HILLS                           44 MPH   0308 PM 03/28
HESPERIA (2 E)                        43 MPH   1240 PM 03/28
MOUNTAIN VIEW ACRES (3 W)             42 MPH   0142 PM 03/28
HESPERIA (4 SW)                       42 MPH   0317 PM 03/28
VICTORVILLE (5 N)                   41 MPH   0200 PM 03/28

OBSERVATIONS ARE COLLECTED FROM A VARIETY OF SOURCES WITH VARYING
EQUIPMENT AND EXPOSURE. NOT ALL DATA LISTED ARE CONSIDERED OFFICIAL.

$$

MOEDE
NWS SAN DIEGO CA

```

Fig A-12: A Public Information Statement issued at 3:44 p.m. on March 28, 2016 included a roundup of high winds. High winds were measured over a wide region, emphasizing the regional nature of the high wind event on March 28, 2016. The desert areas highlighted were upstream from the Imperial County monitors during the wind event. Source: Iowa Environmental Mesonet; <https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=PNSSGX&e=201603282244>

FIGURE A-13 HIGH WINDS RECORDED OVER WIDE REGION

132
N00545 KPSR 290429
PNSPSR
AZZ020>028>CAZ030>033>291629-

PUBLIC INFORMATION STATEMENT
NATIONAL WEATHER SERVICE PHOENIX AZ
929 PM MST MON MAR 28 2016

...WIND REPORTS PAST 12 HOURS...

LOCATION	SPEED	TIME/DATE	LAT/LON
...GREATER PHOENIX AREA...			
1 MSW LUKE AFB	35 MPH	0330 PM 03/28	33.53N/112.38W
6 ENE DEER VALLEY	33 MPH	0406 PM 03/28	33.72N/112.02W
PHOENIX DEER VALLEY AIRPORT	32 MPH	0457 PM 03/28	33.69N/112.08W
CHANDLER MUNICIPAL AIRPORT	30 MPH	0547 PM 03/28	33.27N/111.81W
2 SW DEER VALLEY	30 MPH	0526 PM 03/28	33.64N/112.14W
4 MSW PHOENIX	30 MPH	0510 PM 03/28	33.42N/112.15W
...IMPERIAL COUNTY...			
MOUNTAIN SPRINGS GRADE	54 MPH	0550 PM 03/28	32.67N/116.09W
NAVAL AIR FACILITY	53 MPH	0359 PM 03/28	32.83N/115.67W
IMPERIAL COUNTY AIRPORT	51 MPH	0711 PM 03/28	32.83N/115.58W
5 MSW GLAMIS	50 MPH	0510 PM 03/28	32.97N/115.17W
4 ENE GORDON'S WELL	42 MPH	0809 PM 03/28	32.74N/114.88W
17 NW COYOTE WELLS	42 MPH	0726 PM 03/28	32.99N/116.07W
SUNRISE	39 MPH	0900 AM 03/28	32.74N/116.04W
3 SSE IMPERIAL HOT MINERAL S	39 MPH	0420 PM 03/28	33.37N/115.68W
2 N SALTON CITY	38 MPH	0919 AM 03/28	33.30N/115.94W
10 SW WINDOM	36 MPH	0730 PM 03/28	33.13N/116.05W
2 SW NITLAND	34 MPH	0600 PM 03/28	33.21N/115.55W
2 ESE GLAMIS	33 MPH	0325 PM 03/28	32.98N/115.04W
11 NNE GORDON'S WELL	30 MPH	0615 PM 03/28	32.87N/114.91W
...JOSHUA TREE NATIONAL PARK...			
12 E LOST HORSE-KEYS VILLAGE	42 MPH	0634 PM 03/28	33.98N/116.00W
5 NNE LOST HORSE-KEYS VILLAGE	40 MPH	0600 PM 03/28	34.02N/116.19W
...LOWER COLORADO RIVER VALLEY AZ...			
3 SSW CIBOLA	33 MPH	0748 PM 03/28	33.30N/114.69W
AKAKHAY PRESERVE RAMS	30 MPH	0326 PM 03/28	34.13N/114.33W
2 SW POSTON	30 MPH	0835 PM 03/28	33.94N/114.43W
...LOWER COLORADO RIVER VALLEY CA...			
4 S MARTINEZ LAKE	34 MPH	0827 PM 03/28	32.91N/114.47W
...NORTHWEST MARICOPA COUNTY...			
6 NW BUCKEYE	32 MPH	0115 PM 03/28	33.42N/112.69W
MORRISTOWN	31 MPH	0336 PM 03/28	33.85N/112.60W
BELMONT RAMS	30 MPH	0901 PM 03/28	33.67N/112.92W
...NORTHWEST AND NORTH CENTRAL PINAL COUNTY...			
CASA GRANDE MUNICIPAL AIRPORT	35 MPH	1255 PM 03/28	32.95N/111.77W
7 SE AK-CHIN VILLAGE	35 MPH	0335 PM 03/28	32.94N/112.02W
1 ESE APACHE JUNCTION	31 MPH	0300 PM 03/28	33.41N/111.53W
4 SSE COOLIDGE	31 MPH	0535 PM 03/28	32.92N/111.51W
2 NW CASA GRANDE	30 MPH	0440 PM 03/28	32.90N/111.79W
...RIVERSIDE COUNTY/EASTERN DESERTS...			
13 NNE MIDLAND	44 MPH	0650 PM 03/28	34.06N/114.73W
BLYTHE AIRPORT	41 MPH	0218 PM 03/28	33.61N/114.71W
DOS PALMAS RAMS	36 MPH	0614 PM 03/28	33.51N/115.84W
17 ESE DESERT CENTER	34 MPH	0300 PM 03/28	33.65N/115.10W
1 NNE DESERT CENTER	30 MPH	0337 PM 03/28	33.74N/115.39W
...SOUTHERN GILA/TORTON HF FOOTHILLS...			
7 SSW GLOBE	51 MPH	0448 PM 03/28	33.28N/110.82W
1 W ROOSEVELT	40 MPH	0435 PM 03/28	33.67N/111.16W
15 NW SUNFLOWER	38 MPH	1210 PM 03/28	33.98N/111.71W
1 NE PUNKIN CENTER	37 MPH	0511 PM 03/28	33.87N/111.31W
5 NE TORTILLA FLAT	36 MPH	0435 PM 03/28	33.59N/111.34W
6 N EAST MESA	34 MPH	1240 PM 03/28	33.51N/111.69W
...SOUTHWEST DESERTS...			
5 NE MARTINEZ LAKE	40 MPH	0712 PM 03/28	33.03N/114.39W
5 NNE MARTINEZ LAKE	35 MPH	0708 PM 03/28	33.04N/114.43W
18 W PALM CANYON	34 MPH	0827 PM 03/28	33.35N/114.29W

Fig A-13: A wind report roundup at 9:29 p.m. on March 28, 2016 showed that high winds had been measured over a wide area of southeastern California and southwestern Arizona. Source:

<https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=PNSPSR&e=201603290429>

FIGURE A-14
BRAWLEY AIR QUALITY ALERT – AQ BECOMES UNHEALTHY

Imperial Valley Air Quality Alert

Brawley - 220 Main Street

Monday, March 28 - 7:00 PM
 PM10 (24-hr average) AQI reached 164 - **Unhealthy**

PM10 AQI 151-200 People with respiratory or heart disease, the elderly, and children are the groups most at risk, especially when they are physically active. Persons with cardiopulmonary disease and the elderly may experience increased aggravation of heart or lung disease and premature mortality. The general population may experience increased respiratory effects. U.S. EPA cautions that "people with heart or lung disease, older adults, and children should avoid prolonged or heavy exertion. Everyone else should reduce prolonged or heavy exertion." 'Prolonged' generally means four or more hours with short rest periods. 'Heavy exertion' is that which would increase the resting breathing rate four fold or greater. You can reduce exposure to particulate material by: - Reducing the intensity and duration of your outdoor activities - Postponing outdoor activities to days when particulate levels are lower

Current Maximum AQI for Other Imperial Valley Cities

Calexico - Ethel Street: **Moderate** (PM2.5)
 El Centro - 9th Street: **Moderate** (PM10)
 Niland - English Road: **Moderate** (PM10)
 Westmorland - 570 Cook St: **Unhealthy** (PM10)

Fig A-14: The ICAPCD posted an alert on its webpage to notify residents that air quality in the Brawley area had fallen to Unhealthy level. Source: ICAPCD archives

FIGURE A-15
BRAWLEY AIR QUALITY ALERT – AQ BECOMES UNHEALTHY

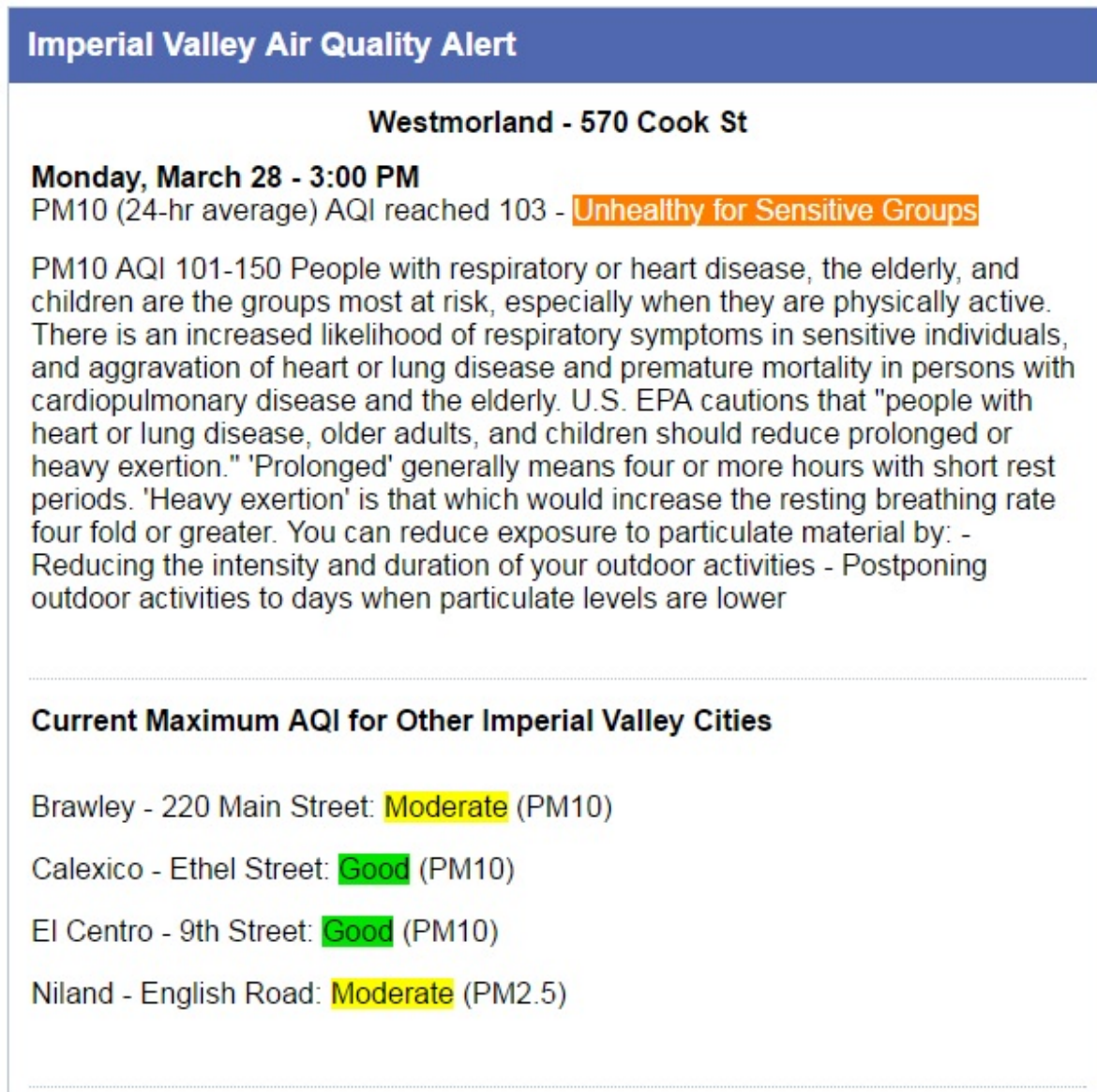


Fig A-15: The ICAPCD posted an alert on its webpage to notify residents that air quality in the Westmorland area had fallen to Unhealthy for Sensitive Groups level. Source: ICAPCD archives

FIGURE A-16
AIR QUALITY INDEX CHART

Air Quality Index Levels of Health Concern	Numerical Value	Meaning
Good	0 to 50	Air quality is considered satisfactory, and air pollution poses little or no risk.
Moderate	51 to 100	Air quality is acceptable; however, for some pollutants there may be a moderate health concern for a very small number of people who are unusually sensitive to air pollution.
Unhealthy for Sensitive Groups	101 to 150	Members of sensitive groups may experience health effects. The general public is not likely to be affected.
Unhealthy	151 to 200	Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.
Very Unhealthy	201 to 300	Health alert: everyone may experience more serious health effects.
Hazardous	301 to 500	Health warnings of emergency conditions. The entire population is more likely to be affected.

Fig A-16: The Air Quality Index The AQI is an index for reporting daily air quality. It tells you how clean or polluted your air is, and what associated health effects might be a concern for you. The AQI focuses on health effects you may experience within a few hours or days after breathing polluted air. EPA calculates the AQI for five major air pollutants regulated by the Clean Air Act: ground-level ozone, particle pollution (also known as particulate matter), carbon monoxide, sulfur dioxide, and nitrogen dioxide. For each of these pollutants, EPA has established national air quality standards to protect public health. Ground-level ozone and airborne particles are the two pollutants that pose the greatest threat to human health in this country. Source: <https://airnow.gov/index.cfm?action=aqibasics.aqi>

FIGURE A-17
IMPERIAL COUNTY ISSUED NO BURN DAY

Imperial County Air Pollution Control District
Daily Weather and Ag. Burning Information

Date: Monday, March 28, 2016

Yesterday's Weather Observations at Imperial Airport (ASOS) FAA/NWS

LOCAL TIME	TEMP °F	WINDS MILES PER HOUR	VISIBILITY MILES
7 AM	56	CALM	10
8 AM	60	CALM	10
9 AM	68	CALM	10
10 AM	75	ESE-9	10
11 AM	79	SE-7	10
NOON	82	SE-9	10
1 PM	83	ESE-12	10
2 PM	85	E-7	10
3 PM	87	SE-9	10
4 PM	87	SSE-8	10
5 PM	87	E-7	10
6 PM	86	ESE-8	10
7 PM	83	SE-7	10

Max. Temperature yesterday was 88 degrees

Today's Mt. Signal Visibility at 7:30 AM Clear NKX 12Z 500 MB Height _____
1Y7 12Z 500 MB Height _____

Forecasts
High Today 75-80

	Local Forecast (Issued 8 AM Local)	Computer Forecast (RUC 40KM 12Z)
Est. Time Mixing Height reaches 3000 feet	-	10:00 am
Forecast of Maximum Mixing Height	- feet	9,900 feet
Forecast for Morning surface winds	W 15-25 mph	W 15-25 mph
Forecast for afternoon surface winds	W 25-35 mph	W 25-35 mph
Forecast for evening surface winds	W 25-35 mph	
Forecast 10 AM - 3 PM transport winds	W 25-35 mph	

Comments/Complaints: GUSTS UP TO 45

Burn Hours _____ ARB No Burn Day _____ District called No Burn Day XXX
Total actually burned today _____ acres Crops burned _____
IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT 2011 Int FG

Fig A-17: A copy of the Imperial County Air Pollution Control District official record of the conditions as they existed for a determination of a "No Burn" day on March 28, 2016.
Source: ICAPCD archives

**IMPERIAL COUNTY
AIR POLLUTION CONTROL DISTRICT
COMPLAINT # 6985**

Date	Time	Initial	Supplemental
7-28-16	8:30 P	FS	
Complainant Name: <u>BEUX</u>			
Complainant Address: _____			
Phone: _____			
Smoke:	Dust:	Open Fire:	Ag Related:
		Odors:	Other:
AGRICULTURAL OPERATION CAUSING A LOT OF DUST IN THE AREA (ANDSON & ROSS EL CENTER)			
Statement of Source (Inspector's Report):			

91

FIGURE A-19
IMPERIAL COUNTY AFFIDAVIT OF 30 DAY PUBLIC NOTICE

AFFIDAVIT OF PUBLICATION
(2015.5 C.C.P.)

STATE OF CALIFORNIA

County of Imperial

I am a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above entitled matter. I am the principal clerk* of the printer of the

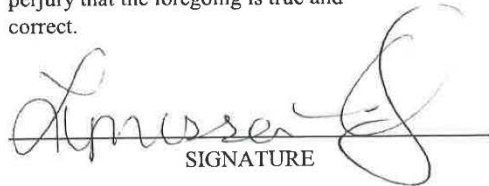
Imperial Valley Press

a newspaper of general circulation, printed and published daily in the City of El Centro, County of Imperial and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of Imperial, State of California, under the date of October 9, 1951, Case Number 26775; that the notice, of which the annexed is a printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

01/10.

all in the year 2018

I certify (or declare) under penalty of perjury that the foregoing is true and correct.


 SIGNATURE

Name of Account: I C AIR POLLUTION
 CONTROL
 Order Number: 11136200
 Ad Number: 31356303

* Printer, Foreman of the Printer, or Principal Clerk of the Printer

Date: 10 th day of January, 2018.
 at El Centro, California.

This space is for the County Clerk's
 Filing Stamp:

**NOTICE OF AVAILABILITY
 OF THE DEMONSTRATION OF THE OCCURRENCE
 OF 13 EXCEPTIONAL EVENTS (EE)**

The Imperial County Air Pollution Control District (Air District) has prepared 13 Draft Exceptional Event (EE) Demonstrations, which support the requested exclusion measured 24-hour concentrations at the Air District air monitoring sites. Listed below by date, site and concentration as measured by a Federal Reference Method monitor (FRM) or with a continuous Federal Equivalent Method monitor (FEM) represent the 13 Draft EE's.

2014	2016	2016
April 12 - 13 Niland Brawley	March 6 Brawley Westmorland	April 22 Westmorland Brawley
FEM 167.5 ug/m ³ FEM 166.8 ug/m ³	FEM 237 ug/m ³ FEM 220 ug/m ³	FEM 192 ug/m ³ FEM 242 ug/m ³
April 25-26 Brawley Brawley	March 11 Brawley Westmorland	April 24-25 Brawley Brawley Westmorland Brawley Calexico Niland Westmorland
FEM 183.4 ug/m ³ FEM 313.3 ug/m ³	FEM 178 ug/m ³ FEM 179 ug/m ³	FEM 186 ug/m ³ FEM 218 ug/m ³ FEM 177 ug/m ³ FEM 285 ug/m ³ FEM 173 ug/m ³ FEM 225 ug/m ³ FEM 244 ug/m ³
May 5-6 Brawley Brawley Westmorland Brawley	March 28 Brawley El Centro Niland Westmorland	May 5 Brawley Niland Westmorland
FRM 269 ug/m ³ FEM 222.5 ug/m ³ FEM 373 ug/m ³ FEM 439.3 ug/m ³	FEM 334 ug/m ³ FEM 385 ug/m ³ FEM 334 ug/m ³ FEM 465 ug/m ³	FEM 163 ug/m ³ FEM 172 ug/m ³ FEM 227 ug/m ³
May 11 Niland	April 14 Niland Westmorland Brawley	May 15 Niland
FEM 172.8 ug/m ³	FEM 172.8 ug/m ³ FEM 163 ug/m ³ FEM 228 ug/m ³	FEM 216 ug/m ³
June 30 Niland		
FEM 183.7 ug/m ³		

The public and all interested parties are encouraged to review and comment on the 13 Draft EE's listed above. These demonstrations provide the supporting evidence that on the days indicated for 2014, 2015 and 2016 Air District air monitors were affected by entrained elevated levels of particulate matter of an aerodynamic size less than 10 microns (PM10). Winds, associated with a weather event entrained PM10 into the region affecting Riverside, Imperial and San Diego counties. The 13 Draft EE's provide the scientific justification for the requested exclusions. The Air District is soliciting and accepting comments for 30 days commencing the date of the publication of this notice. The final closing date for submitting comments is February 12, 2018 by close of business.

The 13 Draft EE's for days listed above are available for download at the Air District website: www.co.imperial.ca.us, under "Air Pollution". To view a hard copy of any of the 13 Draft EE's, please visit the Air Pollution Control District office at 150 S. 9th Street, El Centro. Should you have any questions or concerns please feel free to call our office between 8am and 5pm at (442) 265-1800 and ask for Monica N. Soucier.

L673 J10

Fig A-19: Is a copy of the Imperial County Air Pollution Control District official record (affidavit) affirming the publication of the notice of availability of the Exceptional Events Demonstration for March 28, 2016. The date for closing comments was February 12, 2018

FIGURE A-20
IMPERIAL COUNTY COMMENTS
REGARDING THE MARCH 28, 2016 EE DEMONSTRATIONS

The ICAPCD received no comment